

A method of separating an olefin from a gas stream**Abstract**

- 5 The present invention relates to a method of separating an olefin from a gas stream, said gas stream comprising the olefin and at least one other component, said method comprising
- (i) compressing and cooling the gas stream;
 - (ii) separating the olefin from the gas stream by absorbing the olefin in an absorbent;
- 10 (iii) separating the olefin from the absorbent by desorption; wherein compressing or cooling or compressing and cooling in (i) is carried out at least twice.